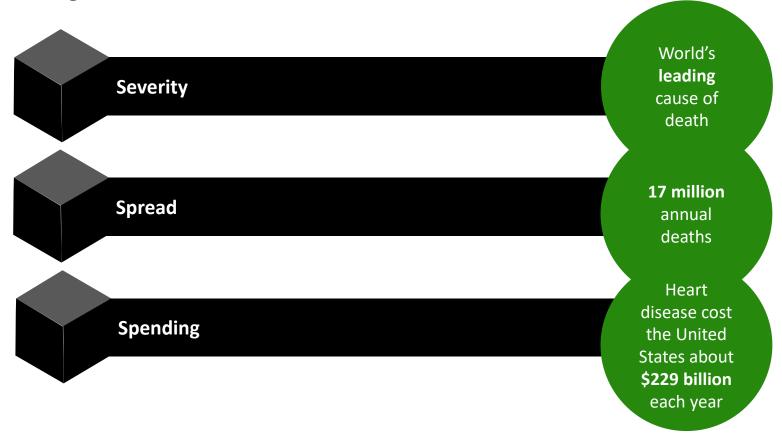


Contents

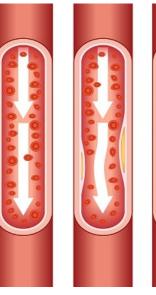


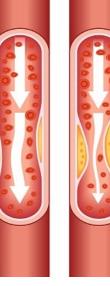
Background Information

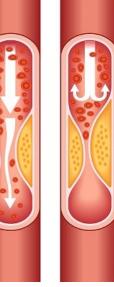


Trained algorithms would be able to help doctors identify patterns in large amounts of data, which can improve accuracy and timeliness of diagnoses. In addition, it would decrease pressure on medical professionals and have some positive effect on the cost, efficiency, and price of medical treatment.

What is heart disease?





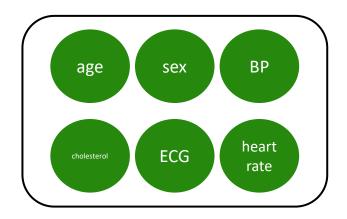


As plaque builds up in the arteries of a person with heart disease, the inside of the arteries begins to narrow, which lessens or blocks the flow of blood. Plaque can also rupture (break open). When it does, a blood clot can form on the plaque, blocking the flow of blood.

Understanding the Problem

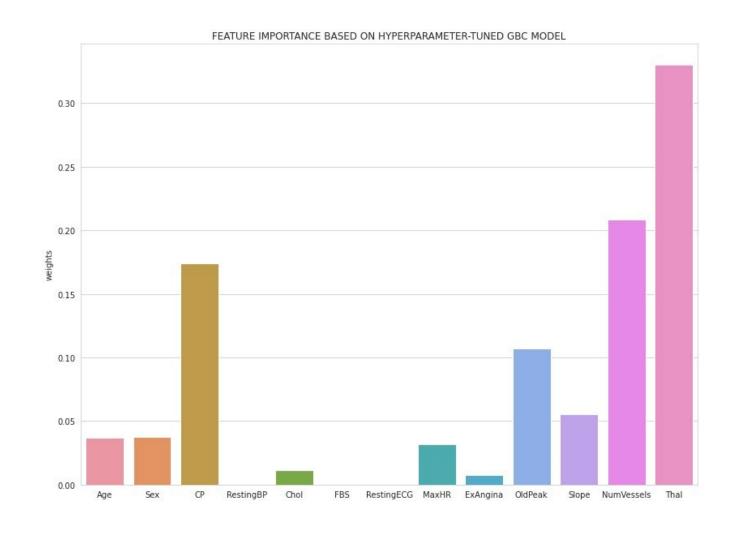
In a risk assessment of cardiovascular disease conducted by Björn Dahlöf, he cited "hypertension" and "high levels of cholesterol" as important indicators of cardiovascular disease worldwide. [4] Based on this research, **predicting that thalassemia**, **cholesterol**, and **resting blood pressure will have the highest effect on accurate diagnoses** is a viable initial hypothesis.

Risk-Factors of Cardiovascular Disease

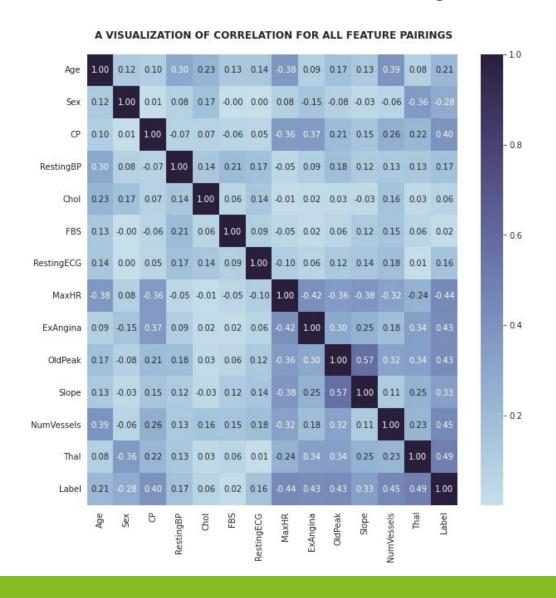




What are the most important features based on analysis?



Can we quantify the correlation between our features and the target?



Limitations

| Race of Ethnic Group | % of Deaths | Male, % | Female, % |
|--|-------------|---------|-----------|
| American Indian or Alaska Native | 14.2 | 15.5 | 12.7 |
| Asian | 18.9 | 20.0 | 17.8 |
| Black (Non-Hispanic) | 20.7 | 21.0 | 20.3 |
| Native Hawaiin or Other Pacific Islander | 20.8 | 21.9 | 19.4 |
| White (Non-Hispanic) | 21.3 | 22.7 | 19.8 |
| Hispanic | 15.8 | 15.8 | 15.8 |
| All | 20.6 | 21.6 | 19.5 |
| More Than One Race | 18.2 | 19.2 | 16.9 |